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10/783,122

02/19/2004

Michael B. Shelby

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12/19/2008

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EXAMINER

DUFFY, DAVID W

ART UNIT

PAPER NUMBER

3714

MAIL DATE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/783,122	Applicant(s) SHELBY ET AL.	
	Examiner DAVID W. DUFFY	Art Unit 3714	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 October 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Status of Claims

1. This office action is in response to the amendment filed 10/21/2008 in which applicant amends claims 1-2, 9, 16, 21 and 23. Claims 1-23 are pending.

Claim Rejections - 35 USC § 103

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3. Claims 1-4, 8, and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nguyen, Binh T. US 20020071557 A1 in view of Federal Information Processing Standards Publication 186 (FIPS) and Staring, Antonius A.M. (US 20010007127 A1).

4. In regards to claim 1, Nguyen discloses generating a command at a master server or slave server, digitally signing it and transmitting to a receiving node for re-hashing and verification (fig 4, elements 400-420). Nguyen does not explicitly disclose digitally signing the command by performing a hashing function over at least a portion of a message that includes the command to produce a message digest and passing the message digest through a digital signature algorithm to produce a digitally signed command; verification wherein the digitally signed command from the transmitting mode is subjected to the hashing function to produce a message digest, the message digest is passed through the digital signature algorithm to produce a digitally signed command at the receiving node, and the digitally signed command at the receiving node is compared

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to the digitally signed command from the transmitting mode to determine if there is a match.

5. In related prior art, FIPS discloses a digital signature standard that digitally signs a message by using a hash function in the signature generation process to obtain a condensed version of data, called a message digest (see Figure 1). The message digest is then input to the DSA to generate the digital signature. The digital signature is sent to the intended verifier along with the signed data (often called the message). The verifier of the message and signature verifies the signature by using the sender's public key. The same hash function must also be used in the verification process. Similar procedures may be used to generate and verify signatures for stored as well as transmitted data. One skilled in the art would recognize the advantages of providing a secure way to authenticate the sender of a message in a network environment.

6. Therefore it would have been obvious to one skilled in the art at the time of the invention to have modified Nguyen in view of FIPS in order to have included the digital signature method of FIPS in order to provide a secure authentication process. The combination made lacks including a session key that is changeable and associated with an index so that a receiving node can determine the session key used.

7. In related prior art, Staring discloses that in encrypted systems it is useful to change session keys periodically (par 2) where the session keys are indexed so that a receiving node can determine the session key used (pars 12-14) to facilitate session key changes without the requirement of knowing what the decrypted data should look like (par 5).

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8. Therefore it would have been obvious to one of ordinary skill in the art to have modified Nguyen in view of FIPS in view of Staring to have incorporated a session key index to facilitate frequent key changes without the requirement of the knowledge of the content of a message. The combination made lacks explicitly stating executing the command message at the subservient device, only if the signatures verify and generating a notification or alarm if the sender is not verified.

9. However, as the goal of the system is to provide a secure communication system, it would be obvious to execute commands only if authorized and verified as otherwise the security of the system would be compromised. Furthermore, it would have been obvious to provide the system operator with notification of attempts to compromise the system so that they may determine the cause and protect the integrity of the system. As such it would have been an obvious modification to make to have the device only execute commands that are verified and authorized and to provide notification of attempted security breaches.

10. In regards to claim 2, Nguyen discloses that the gaming machine generates encrypted data messages based on machine transactions (fig 4, elements 400-406). Examiner contends that this constitutes monitoring events to generate a command.

11. In regards to claim 3, Nguyen discloses that the remote server or master of the system receives messages from the gaming machine and responds to the message (fig 4, elements 426-431). Examiner contents that this constitutes monitoring events on the gaming machine by the master server as it receives event information from the gaming

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machine thereby monitoring the event. Nguyen further discloses that the local server or slave receives the signed command (fig 4, element 408).

12. In regards to claim 4, Nguyen discloses that the slave server processes and stores data generated by the gaming machine before re-encrypting and sending it to the master server (fig 4, element 412). Examiner contends that by storing the data the slave server is inherently monitoring the activities of the gaming machine. Nguyen further discloses sending a command from the master server to the gaming machine that the gaming machine verifies (fig 6).

13. In regards to claim 8, Nguyen discloses that encryption may be optional over a dedicated communication network and then applied when the message reaches an unsecured channel (11:39-47)

14. In regards to claims 16 and 17, Nguyen discloses the receiving of commands with digital signatures and verifying the signatures at a slave device (par 58). Nguyen lacks explicitly stating verifying the digital signature at the subservient device by subjecting the command message to a hashing function to produce a message digest, passing the message digest through a digital signature algorithm to produce a digital signature at the subservient device, and comparing the digital signature at the subservient device to the digital signature included with the command message to determine if there is a match; and executing the command message at the subservient device, if the signatures verify.

15. In related prior art, FIPS discloses a digital signature standard that digitally signs a message by using a hash function in the signature generation process to obtain a

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condensed version of data, called a message digest (see Figure 1). The message digest is then input to the DSA to generate the digital signature. The digital signature is sent to the intended verifier along with the signed data (often called the message). The verifier of the message and signature verifies the signature by using the sender's public key. The same hash function must also be used in the verification process. Similar procedures may be used to generate and verify signatures for stored as well as transmitted data. One skilled in the art would recognize the advantages of providing a secure way to authenticate the sender of a message in a network environment.

16. Therefore it would have been obvious to one skilled in the art at the time of the invention to have modified Nguyen in view of FIPS in order to have included the digital signature method of FIPS in order to provide a secure authentication process. The combination made lacks including a session key that is changeable and associated with an index so that a receiving node can determine the session key used.

17. In related prior art, Staring discloses that in encrypted systems it is useful to change session keys periodically (par 2) where the session keys are indexed so that a receiving node can determine the session key used (pars 12-14) to facilitate session key changes without the requirement of knowing what the decrypted data should look like (par 5).

18. Therefore it would have been obvious to one of ordinary skill in the art to have modified Nguyen in view of FIPS in view of Staring to have incorporated a session key index to facilitate frequent key changes without the requirement of the knowledge of the content of a message. The combination made lacks explicitly stating executing the

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command message at the subservient device, only if the signatures verify and generating a notification or alarm if the sender is not verified.

19. In regards to claim 18, Nguyen discloses that the gaming device may receive signed messages and validate them (par 73).

20. In regards to claim 19, Nguyen discloses generating a signed command at the master server, sending it to the slave server, and the slave server decrypting the message and forwarding to the gaming machine (par 62).

21. Claims 5-7 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nguyen, Binh T. (US 20020071557 A1) in view of Federal Information Processing Standards Publication 186 (FIPS) and Staring, Antonius A.M. (US 20010007127 A1) as applied to claims 1 and 16 above, and further in view of Torango et al. (USPN 5885158).

22. In regards to claims 5 and 6, Nguyen in view of FIPS and Staring discloses the method of claim 1 above, but lacks wherein the event further comprises an event triggering a bonus is to be paid or wherein the command further comprises a bonus command.

23. In related prior art, Torango discloses a bonus system that generates bonus commands based on bonus triggering events (15:41-51). One skilled in the art would recognize the advantages of providing a progressive bonus game on a networked system in order to attract more players to a casino through higher potential payouts.

24. Therefore it would have been obvious to one skilled in the art at the time to combine the secure system of Nguyen in view of FIPS and Staring with the progressive

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system of Torango to provide a secure progressive system that would attract customers by offering larger potential payouts via a large group of networked devices.

25. In regards to claim 7, Nguyen discloses generating a signed command at the master server, sending it to the slave server, and the slave server decrypting the message and forwarding to the gaming machine (par 62). Nguyen lacks explicitly stating that the message is a bonus command.

26. In related prior art, Torango discloses a bonus system that generates bonus commands (15:41-51). One skilled in the art would recognize the advantages of providing progressive games on a networked system to increase the size of the contributing player pool thereby offering larger potential payouts in order to attract players.

27. Therefore it would have been obvious to one skilled in the art at the time to combine the secure system of Nguyen with the progressive system of Torango to provide a secure progressive system thus providing large potential payouts to attract customers. Nguyen in view of Torango lacks explicitly stating that the reply message is re-signed before sending it to the gaming machine.

28. However, Nguyen already discloses signing the messages on the way to the slave server from the gaming device (fig 4) and discloses that the slave server decrypts and then forwards the message to the gaming machine as stated above. It would be obvious to also re-encrypt and sign the message before sending it to the gaming machine as suggested by Nguyen.

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29. In regards to claim 20, Nguyen in view of FIPS discloses the method of claim 16, but lacks disclosing the command comprising paying a bonus to a player at an electronic gaming machine.

30. In related prior art, Torango discloses a bonus system that generates bonus commands including paying a bonus (15:41-51). One skilled in the art would recognize the advantages of providing progressive games on a networked system to increase the size of the contributing player pool thereby offering larger potential payouts in order to attract players.

31. Therefore it would have been obvious to one skilled in the art at the time to combine the secure system of Nguyen with the progressive system of Torango to provide a secure progressive system thus providing large potential payouts to attract customers.

32. Claims 9-15 and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Torango et al. (USPN 5885158) in view of Nguyen, Binh T. (US 20020071557 A1), Federal Information Processing Standards Publication 186 (FIPS) and Staring, Antonius A.M. (US 20010007127 A1).

33. In regards to claim 9, Torango discloses a progressive bonus system where the central server generates bonus commands (15:41-51). Torango further discloses the use of verification of hardware identification (16:1-13). Torango lacks disclosing performing a hashing function over at least a portion of a message that includes the bonus command to produce a message digest and then passing the message digest through a digital signature algorithm to produce a digitally signed bonus command; and

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transmitting the digitally signed bonus command from a transmitting node to an electronic gaming machine wherein the digitally signed bonus command from the transmitting mode is subjected to the hashing function to produce a message digest, the message digest is passed through the digital signature algorithm to produce a digitally signed bonus command at the gaming machine, and the digitally signed bonus command at the gaming machine is compared to the digitally signed bonus command from the transmitting mode to determine if they match.

34. In related prior art, Nguyen discloses a system that is used to replace dedicated casino networks with secure communications over a general use network (par 15) where commands are digitally signed and transmitted to a gaming machine (par 62). Nguyen further discloses that some of the dedicated casino networks that may be replaced include network services for bonus game play, progressive game play and cashless ticketing (par 9). One skilled in the art would recognize the advantages of providing network security features to a networked progressive game system.

35. Therefore it would have been obvious to one skilled in the art at the time to combine the security system of Nguyen with the bonus system of Torango in order to provide a secure bonus system. The combination made lacks performing a hashing function over at least a portion of a message that includes the bonus command to produce a message digest and then passing the message digest through a digital signature algorithm to produce a digitally signed bonus command; and transmitting the digitally signed bonus command from a transmitting node to an electronic gaming machine wherein the digitally signed bonus command from the

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transmitting mode is subjected to the hashing function to produce a message digest, the message digest is passed through the digital signature algorithm to produce a digitally signed bonus command at the gaming machine, and the digitally signed bonus command at the gaming machine is compared to the digitally signed bonus command from the transmitting mode to determine if they match.

36. In related prior art, FIPS discloses a digital signature standard that digitally signs a message by using a hash function in the signature generation process to obtain a condensed version of data, called a message digest (see Figure 1). The message digest is then input to the DSA to generate the digital signature. The digital signature is sent to the intended verifier along with the signed data (often called the message). The verifier of the message and signature verifies the signature by using the sender's public key. The same hash function must also be used in the verification process. Similar procedures may be used to generate and verify signatures for stored as well as transmitted data. One skilled in the art would recognize the advantages of providing a secure way to authenticate the sender of a message in a network environment.

37. Therefore it would have been obvious to one skilled in the art at the time of the invention to have modified Torango in view of Nguyen further in view of FIPS in order to have included the digital signature method of FIPS in order to provide a secure authentication process. The combination made lacks including a session key that is changeable and associated with an index so that a receiving node can determine the session key used.

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38. In related prior art, Staring discloses that in encrypted systems it is useful to change session keys periodically (par 2) where the session keys are indexed so that a receiving node can determine the session key used (pars 12-14) to facilitate session key changes without the requirement of knowing what the decrypted data should look like (par 5).

39. Therefore it would have been obvious to one of ordinary skill in the art to have modified Torango in view of Nguyen and FIPS in view of Staring to have incorporated a session key index to facilitate frequent key changes without the requirement of the knowledge of the content of a message. The combination made lacks explicitly stating executing the command message at the subservient device, only if the signatures verify and generating a notification or alarm if the sender is not verified.

40. However, as the goal of the system is to provide a secure communication system, it would be obvious to execute commands only if authorized and verified as otherwise the security of the system would be compromised. Furthermore, it would have been obvious to provide the system operator with notification of attempts to compromise the system so that they may determine the cause and protect the integrity of the system. As such it would have been an obvious modification to make to have the device only execute commands that are verified and authorized and to provide notification of attempted security breaches.

41. In regards to claim 10, Torango discloses monitoring gaming machine play (5:32-44).

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42. In regards to claim 11, Torango discloses determining if a machine is to receive a bonus (15:41-51).

43. In regards to claims 12, Torango discloses the central server generating a bonus command (13:56-14:11).

44. In regards to claim 13, Torango discloses that the slave server monitors communication and provide verification of prize wins (16:1-23). Torango lacks explicitly disclosing that the slave server generates the bonus command. However, it is well known in the art of network systems to have mirrored servers doing the same tasks to compensate for any network outages or problems. As such, it would have been an obvious modification to provide the slave server with the ability to handle bonus commands on its own in the event that the central server was unreachable.

45. In regards to claim 14, Torango discloses that the bonus commands are sent to the game machine through the cluster controller (15-52-59). Torango lacks explicitly stating that the messages are signed.

46. In related prior art, Nguyen discloses generating a signed command at the master server, sending it to the slave server, and the slave server decrypting the message and forwarding to the gaming machine (par 62). One skilled in the art would recognize the advantages of providing secure messages for a financial transaction system on an unsecured network.

47. Therefore it would have been obvious to one skilled in the art at the time to combine the bonus system of Nguyen with the security system of Torango in order to

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provide a secure bonus server. The combination made lacks transmitting a second digitally signed bonus command to the electronic gaming machine.

48. However, Nguyen already discloses signing the messages on the way to the slave server from the gaming device (fig 4) and discloses that the slave server decrypts and then forwards the message to the gaming machine as stated above. It would be an obvious modification to also sign the message before sending it to the gaming machine as suggested by Nguyen as it would be mere duplication of steps.

49. In regards to claim 15, Torango in view of Nguyen, FIPS and Starling disclose the method of claim 9 above, but lacks wherein the method comprises transmitting an unsigned message after the generation of the bonus command and digitally signing the bonus command at a slave server. Rather the combination teaches signing the messages at the master server.

50. However, it would have been obvious to one skilled in the art that the operator of the game system would have the choice to use security measures on whatever portions of the system they chose as such a matter would have been mere design choice that fails to distinguish over the prior art.

51. In regards to claim 21, Torango discloses a bonus server system that pays bonuses to players as directed (15:41-51) and further discloses that the gaming machines are verified by machine signatures and if invalid, the bonus is canceled (16:4-15). Torango lacks a digital signature; verifying the digital signature at a subservient device by subjecting the bonus message to a hashing function to produce a message digest, passing the message digest through a digital signature algorithm to produce a

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digital signature at the subservient device, and comparing the digital signature at the subservient device to the digital signal included with the command message to determine if there is a match.

52. In related prior art, Nguyen discloses a system that is used to replace dedicated casino networks with secure communications over a general use network (par 15) where commands are digitally signed and transmitted to a gaming machine (par 62). Nguyen further discloses that some of the dedicated casino networks that may be replaced include network services for bonus game play, progressive game play and cashless ticketing (par 9). One skilled in the art would recognize the advantages of providing network security features to a networked progressive game system.

53. Therefore it would have been obvious to one skilled in the art at the time to combine the security system of Nguyen with the bonus system of Torango in order to provide a secure bonus system. The combination made lacks subjecting the bonus message to a hashing function to produce a message digest, passing the message digest through a digital signature algorithm to produce a digital signature at the subservient device, and comparing the digital signature at the subservient device to the digital signal included with the command message to determine if there is a match.

54. In related prior art, FIPS discloses a digital signature standard that digitally signs a message by using a hash function in the signature generation process to obtain a condensed version of data, called a message digest (see Figure 1). The message digest is then input to the DSA to generate the digital signature. The digital signature is sent to the intended verifier along with the signed data (often called the message). The

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verifier of the message and signature verifies the signature by using the sender's public key. The same hash function must also be used in the verification process. Similar procedures may be used to generate and verify signatures for stored as well as transmitted data. One skilled in the art would recognize the advantages of providing a secure way to authenticate the sender of a message in a network environment.

55. Therefore it would have been obvious to one skilled in the art at the time of the invention to have modified Torango in view of Nguyen further in view of FIPS in order to have included the digital signature method of FIPS in order to provide a secure authentication process. The combination made lacks including a session key that is changeable and associated with an index so that a receiving node can determine the session key used.

56. In related prior art, Staring discloses that in encrypted systems it is useful to change session keys periodically (par 2) where the session keys are indexed so that a receiving node can determine the session key used (pars 12-14) to facilitate session key changes without the requirement of knowing what the decrypted data should look like (par 5).

57. Therefore it would have been obvious to one of ordinary skill in the art to have modified Torango in view of Nguyen and FIPS in view of Staring to have incorporated a session key index to facilitate frequent key changes without the requirement of the knowledge of the content of a message. The combination made lacks explicitly stating executing the command message at the subservient device, only if the signatures verify and generating a notification or alarm if the sender is not verified.

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58. However, as the goal of the system is to provide a secure communication system, it would be obvious to execute commands only if authorized and verified as otherwise the security of the system would be compromised. Furthermore, it would have been obvious to provide the system operator with notification of attempts to compromise the system so that they may determine the cause and protect the integrity of the system. As such it would have been an obvious modification to make to have the device only execute commands that are verified and authorized and to provide notification of attempted security breaches.

59. In regards to claim 22, Torango discloses manual intervention to resolve invalid payouts (16:15-21).

60. In regards to claim 23, Torango discloses that the bonus commands are sent to the game machine through the cluster controller (15-52-59). Torango lacks disclosing verifying the digital signature at the subservient device comprising generating a second command message, providing a digital signature to the second command message and transmitting the second command message with the digital signature.

61. In related prior art, Nguyen discloses generating a signed command at the master server, sending it to the slave server, and the slave server decrypting the message and forwarding to the gaming machine (par 62). One skilled in the art would recognize the advantages of providing secure messages for a financial transaction system on an unsecured network.

62. Therefore it would have been obvious to one skilled in the art at the time to combine the bonus system of Torango with the security system of Nguyen in order to

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provide a secure bonus server. The combination made lacks explicitly stating that the reply message is re-signed before sending it to the gaming machine.

63. However, Nguyen already discloses signing the messages on the way to the slave server from the gaming device (fig 4) and discloses that the slave server decrypts and then forwards the message to the gaming machine as stated above. It would be obvious to also re-encrypt and sign the message before sending it to the gaming machine as suggested by Nguyen.

Response to Arguments

64. Applicant's arguments filed 10/21/2008 have been fully considered but they are not persuasive. Applicant argues that Nguyen does not teach using a hash program to sign and verify a bonus. While examiner agrees that Nguyen is silent in this regard, it is the teachings of FIPS in combination with Nguyen that is relied upon by the examiner. One cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

65. Applicant also argues that in Nguyen messages are originated at the gaming machine. Applicant respectfully disagrees. In the examples of Nguyen, the request originates at the gaming machine; however, the server itself generates a reply message that is a new message not the same message as sent by the game machine.

Conclusion

66. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID W. DUFFY whose telephone number is (571)272-1574. The examiner can normally be reached on M-F 0830-1700.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (571) 272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John M Hotaling II/
Supervisory Patent Examiner, Art Unit 3714

/D. W. D./
Examiner, Art Unit 3714